Patent Application: 09/552,766 Docket No: P13614US1

Amendments in the Specification

Please amend the claims as follows:

1. (Currently amended) In a cellular telecommunications network, a Radio Base Station (RBS) comprising:

routing area-cell mapping information defining a relation between a routing area (RA) and at least one cell of said RBS; and

a Packet Control Unit (PCU) for processing a page request received from a Serving GPRS Support Node (SGSN);

wherein said PCU associates an RA information extracted from said page request with cell identification information using said routing area-cell mapping information, said routing area-cell mapping information of said RBS being downloaded from at least one of a Radio Network Management Control Point (RMCP) and a Radio Network Server (RNS) of said cellular telecommunications network.

- 2. (Original) The RBS as claimed in claim 1, wherein said page request is comprised in a broadcast message sent from said SGSN.
- 3. (Original) The RBS as claimed in claim 2, wherein said broadcast message is an IP broadcast message.
- 4. (Original) The RBS as claimed in claim 2, wherein said broadcast message is an IP multicast message.
- 5. (Cancelled)

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6. (Original) The RBS as claimed in claim 4, wherein said RBS further comprises an IP message processor for decapsulating said IP multicast message and for extracting a Base Station Subsystem GPRS Protocol (BSSGP) message from said IP multicast message; and

wherein said PCU further comprises:

- a Page Detector for detecting if said BSSGP message is a BSSGP page request, said Page detector receiving said BSSGP page message from said IP Message Processor; and
- a routing area/Cell mapping translator for translating said routing area information extracted from said BSSGP page request in said cell identification information, said Translator receiving said BSSGP page request.
- 7. (Original) The RBS as claimed in claim 6, further comprising:

a memory for storing said routing area-cell mapping information, wherein said translator is linked to said memory, and obtains from said memory said routing area-cell mapping information for translating said routing area information in cell identification information.

- 8. (Currently amended) A packet-switched GPRS cellular telecommunications network comprising:
 - a Serving GPRS Support Node (SGSN);
 - an IP-based Radio Access Network (RAN); and
 - at least one Radio Base Station (RBS) comprising routing area-cell mapping information;
- a Radio Network Management Control Point (RMCP) node for storing a master routing area-cell mapping table defining relations between a plurality of routing areas (RAs) and a plurality of cells of said network;

wherein said routing area-cell mapping information defines a relation between a Routing Area (RA) and at least one cell served by said RBS, wherein said routing area cell-mapping information of said RBS comprises a sub-set of said master routing area-cell mapping table, and is obtained from said RMCP by downloading in said RBS a portion of said master routing area-cell mapping table that relates to at least one cell served by said RBS.

9. (Cancelled)

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10. (Original) The GPRS cellular telecommunications network as claimed in claim 8, wherein said RBS further comprises:

a memory for storing sald routing area-cell mapping information; and

- a routing area/cell mapping translator for translating a RA information extracted from a received page request message in cell identification information.
 - 11. (Currently amended) In a GPRS cellular telecommunications network, a method for paging for a Mobile Station (MS) in at least one cell served by a Radio Base Station (RBS), said method comprising the steps of:

receiving by said RBS a broadcast message comprising a Base Station Subsystem GPRS Protocol (BSSGP) page request;

extracting from said broadcast message said BSSGP page request comprising a routing area (RA) information;

translating said RA information into cell identity information based on a RA-cell mapping information stored in said RBS; and

paging in at least one cell served by said RBS based on said cell identity information;

wherein said RA-cell mapping information of said RBS is downloaded from at least one of a Radio Network Management Control Point (RMCP) and a Radio Network Server (RNS) of said GPRS cellular telecommunications network.

- 12. (Original) The method as claimed in claim 11, wherein said broadcast message is an IP broadcast message.
- 13. (Original) The method as claimed in claim 40 11, wherein said broadcast message is an IP Multicast message.
- 14. (Original) The method as claimed in claim 13, wherein the step of extracting comprises the step of decapsulating said IP multicast message.
- 15. (Cancelled)

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